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**ABSTRACT**

A<sub>9</sub> The invention relates to a method for mechanically joining stacked, plate-shaped objects, especially metal sheets by means of punch riveting with a semitubular rivet while using tools placed above and below the objects, whereby the semitubular rivet linearly penetrates into the objects. The inventive method is characterized in that, during the axial feed motion of the semitubular rivet, the upper tool and/or a portion of the lower tool is/are subjected to a wobbling additional movement in a radial and/or tangential direction. The invention also relates to an apparatus and to the semitubular rivet which are used for carrying out the method.

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